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June 1965

REEXAMINATION OF SELECTED HF COMMUNICATIONS FACILITIES AT MRBM LAUNCH AREAS, USSR

CIA

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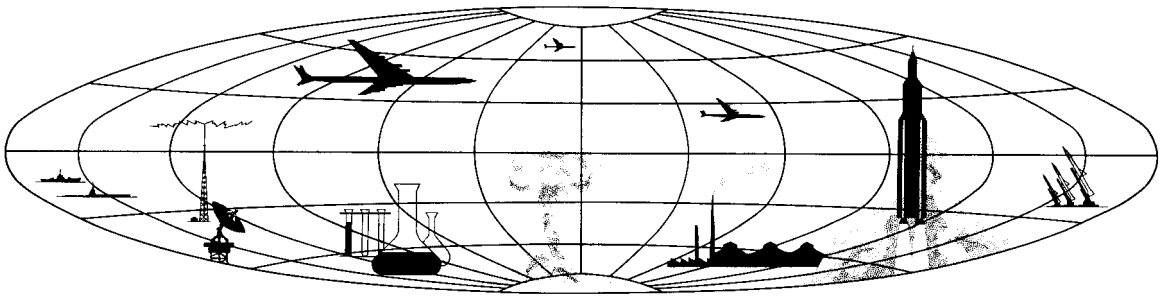
NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



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REEXAMINATION OF SELECTED HF COMMUNICATIONS FACILITIES AT MRBM LAUNCH AREAS, USSR

INTRODUCTION

Recent KH-7 photographic coverage has permitted a reexamination of the 4 high-frequency (HF) communications facilities near MRBM launch areas at Anastasyevka, Jelgava (Iecava),* and Lutsk (Figure 1). The earlier reports on these facilities 1/ 2/ were based only on the characteristic clearings for antennas observable on KH-4 photography rather than actual antenna masts which may be observed on KH-7 photography. Therefore, component identification may be more exact on KH-7 photography. However, when comparing dimensional and orientational figures obtained from the 2 photographic systems (Table 1), it should be noted that although the KH-7 photography may offer better resolution, this advantage may be offset by extreme obliquity, less exact ephemeris data, and other technical factors, all of which may tend to limit mensural reliability.

All mensuration, both present and previous, has been accomplished by the Technical Intelligence Division (TID), NPIC, and is con-

*TDI launch site designator.

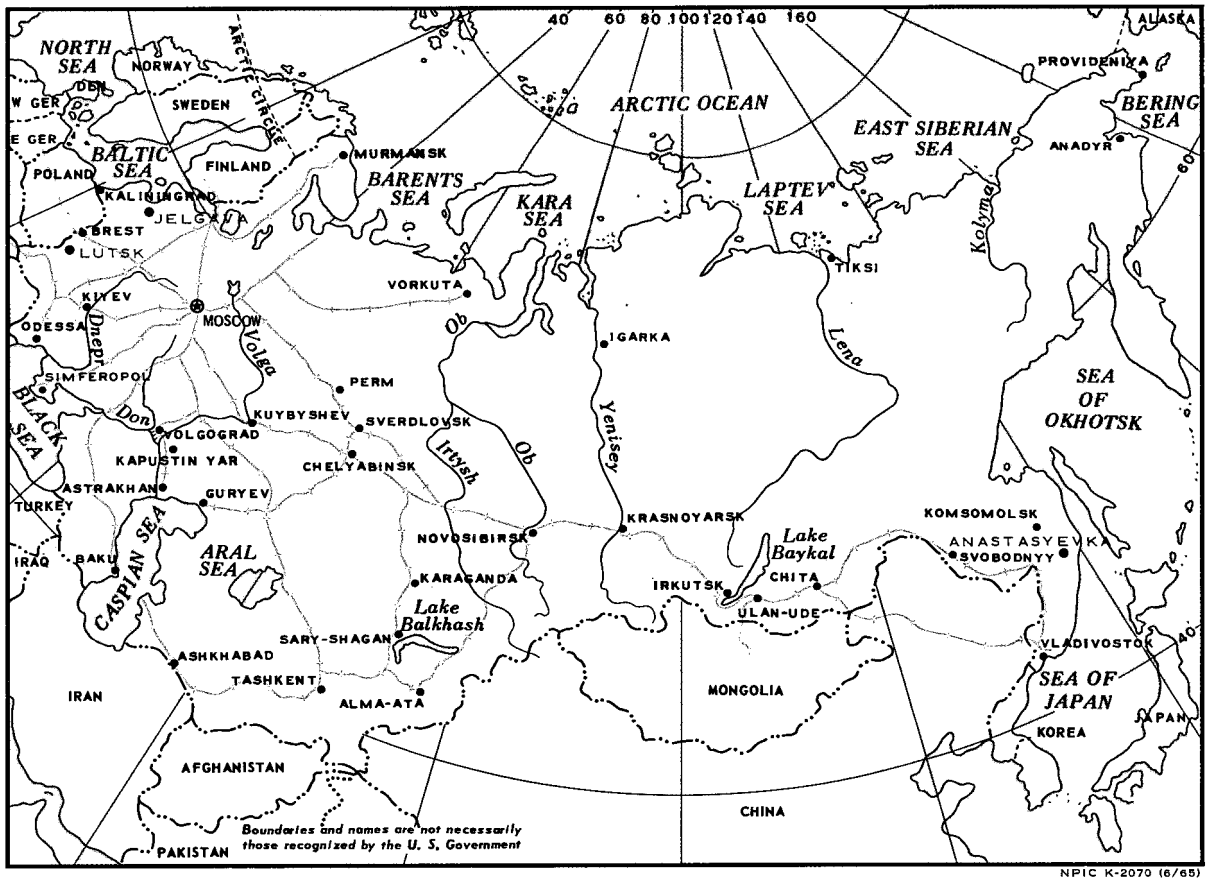

FIGURE 1. LOCATION MAP.

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Table 1. Comparison of Antenna Identifications and Orientations

Facility	KH-4 Photography		KH-7 Photography	
	Antenna Type & Number		Antenna Type & Number	
Anastasyevka Receiving	2 Fishbone		1 Fishbone 1 Fishbone	
Anastasyevka Transmitting (prob)	1 Dipole (prob) 1 Pr day-night single rhombics 1V 2 Dipole (poss)		--- 1 Pr day-night double rhombics --- 1 Dipole (poss)	
Lutsk	Footings for poss dipole		Footings for poss dipole	
Jelgava (Iecava)	3 Dipole (prob)		3 Dipole (prob)	

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sidered to be subject to the following degrees of error:

a. plus-or-minus 5 feet for distance (horizontal) measurements

c. approximation only for vertical (mast height) measurements because of photographic detail limitations.

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SELECTED FACILITIES

ANASTASYEVKA

Two separate HF communications facilities--a receiving site and a probable transmitting site--are situated near Anastasyevka MRBM Launch Area No 1. All obtainable, pertinent mensural and technical data have been included in the graphic presentations.

The fence-secured receiving facility (Figure 2) is approximately 1 nautical mile (nm) south of the launch site and contains 2 fishbone antennas, each with masts arranged in a 5-3-3-5 pattern, and a bunkered control building.

The probable transmitting facility (Figure 3), 1 nm north of the launch site, contains a day-night pair of double rhombic antennas (with take-off angles of 26 and 29 degrees, respectively), a possible horizontal dipole antenna, and 2 control buildings. A nearby support/housing area may be connected with this facility, which is considerably older than the others recently noted at MRBM and IRBM launch areas.

LUTSK

The HF communications facility at Lutsk MRBM Launch Area No 1 (Figure 4) contains what appear to be the guy-anchor positions for 1 horizontal dipole mast. However, no actual mast can be seen nor can positions for a second mast be observed although faint scars are present near the wooded area. If these scars were the footings for the other mast, then the antenna would be firing either directly over the most likely possible control building or over the wooded area. No other antennas or associated equipment were noted.

JELGAVA (IECAVA)*

The HF communications facility at Jelgava MRBM Launch Area No 1 (TDI designation: Iecava Launch Site 1) contains a bunkered control building, 4 possible horizontal dipoles,

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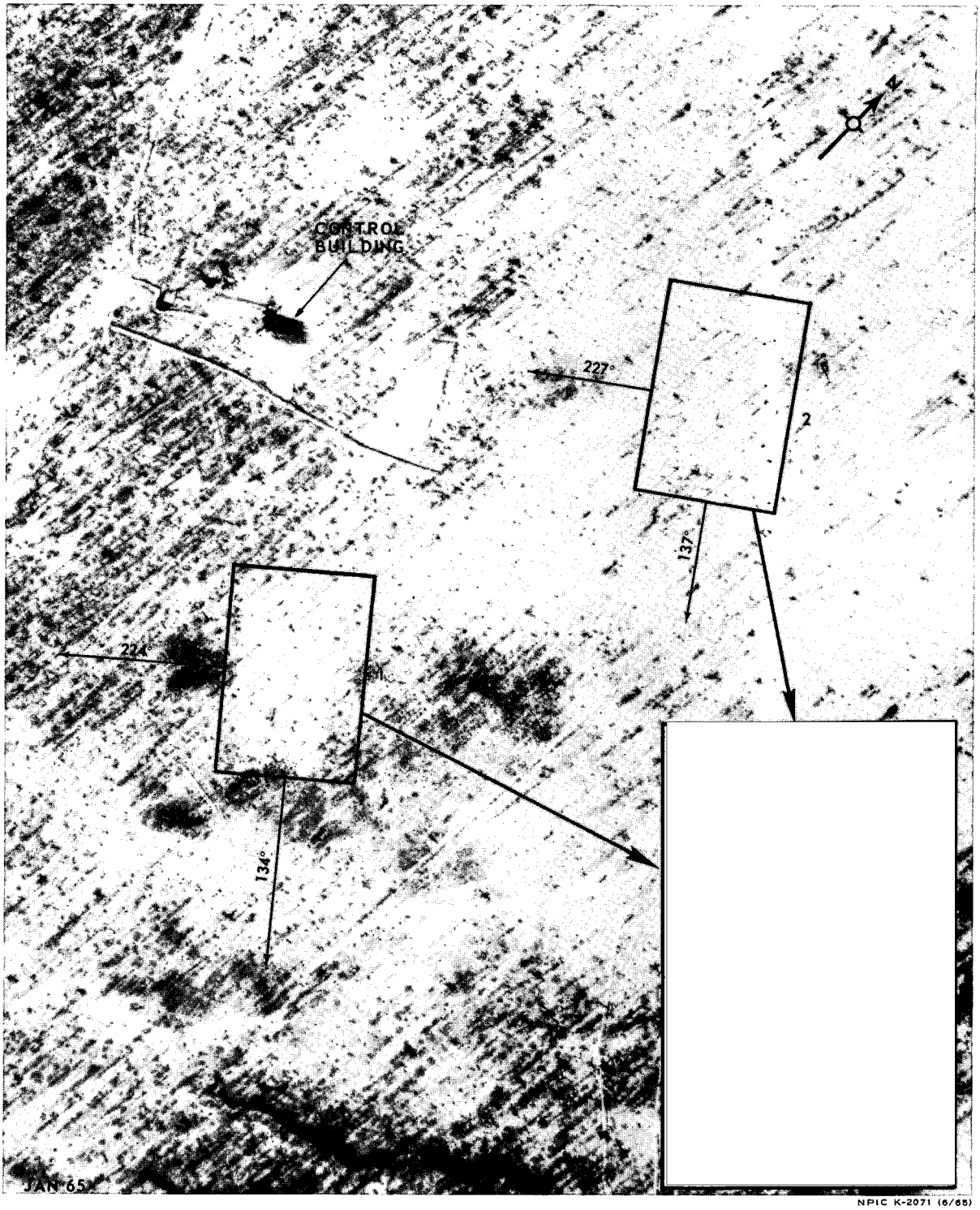

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FIGURE 2. HF COMMUNICATIONS RECEIVING FACILITY, ANASTASYEVKA.

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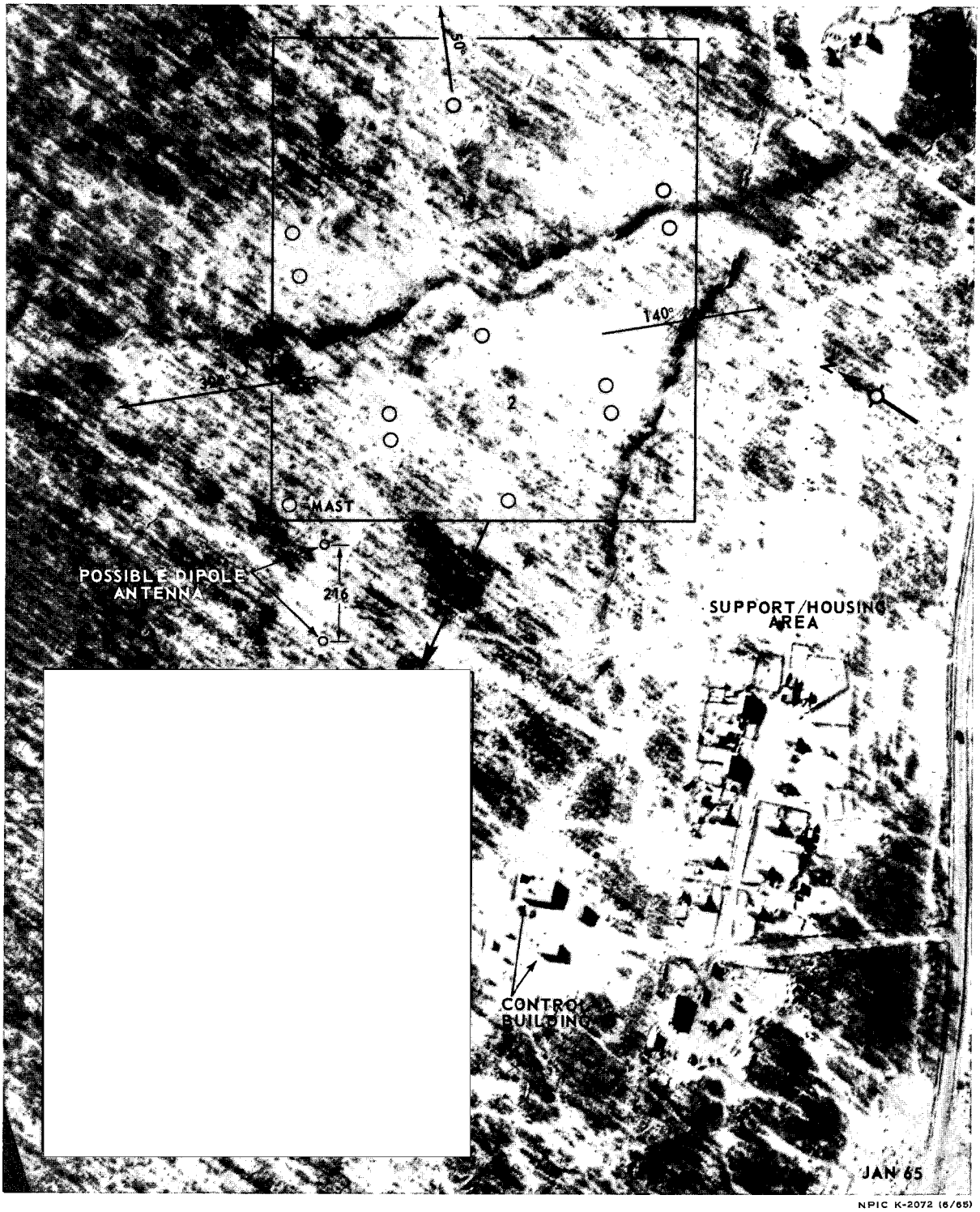

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FIGURE 3. PROBABLE HF COMMUNICATIONS TRANSMITTING FACILITY, ANASTASYEVKA.

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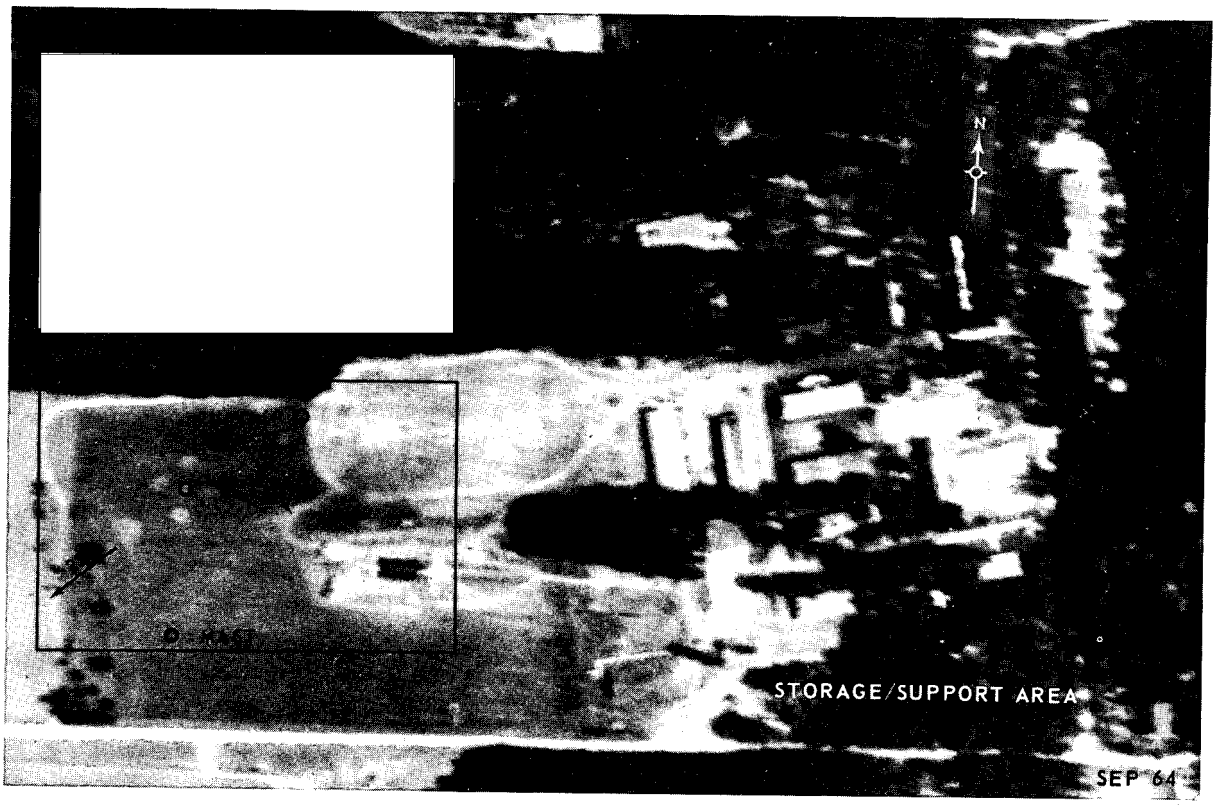

FIGURE 4. HF COMMUNICATIONS FACILITY, LUTSK.

and a unique-appearing unidentified object (Figure 5). Mensural data, azimuths, and precise identification of antennas are all precluded by poor-quality photography, but the clearings for the possible dipoles and probable transmission lines are visible.

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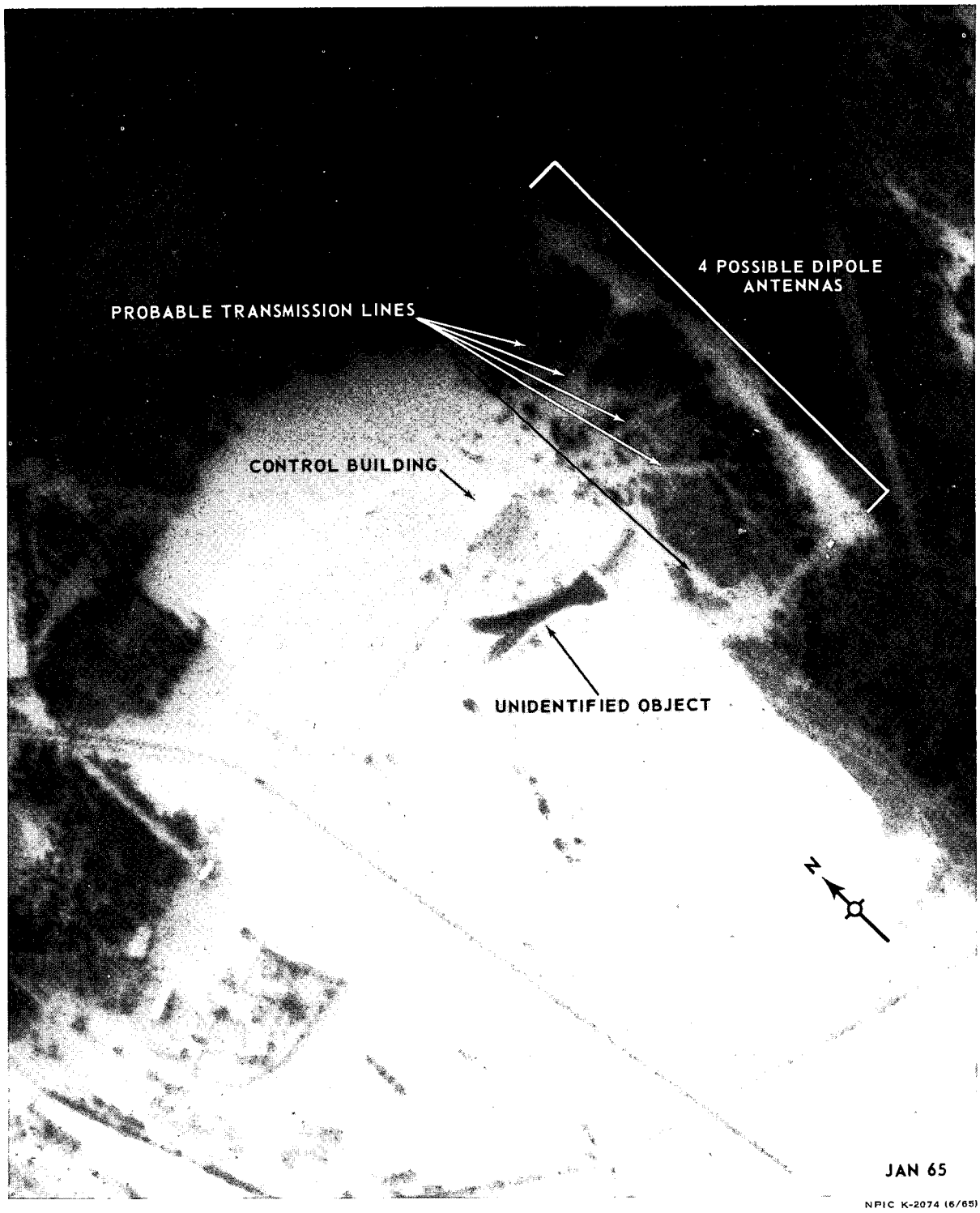

FIGURE 5. HF COMMUNICATIONS FACILITY, JELGAVA (IECAVA).

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REFERENCES

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MAPS OR CHARTS

ACIC. US Air Target Chart, Series 200, Sheet 0204-22HL, 3d ed, Aug 64, scale 1:200,000 (SECRET)

DIA. US Air Target Chart, Series 200, Sheet 0233-6HL, 2d ed, Jun 62, scale 1:200,000 (SECRET)

DIA. US Air Target Chart, Series 200, Sheet 0153-21HL, 5th ed, Apr 64, scale 1:200,000 (SECRET)

DOCUMENTS

1. NPIC. R-795/64, *New HF Communications Facilities at Soviet MRBM/IRBM Launch Areas,* Aug 64 (TOP SECRET RUFF)
2. NPIC. [redacted] *HF Communications Facilities at or Near Selected Soviet MRBM and IRBM Complexes,* Jun 65 (TOP SECRET CHESS RUFF DINAR)

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REQUIREMENT

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NPIC PROJECT

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